LIMITED CYCLICAL REDUNDANCY CHECKSUM (CRC) MODIFICATION TO SUPPORT CUT-THROUGH ROUTING

ABSTRACT OF THE DISCLOSURE

A method for error detection in a high-speed switching environment includes receiving, at a switch input port, a plurality of packets, including a first packet having at least first and second portions. The method further includes initiating switching of the first portion before the entire second portion is received at the switch port. An error detection technique may be performed on the first packet using tag data associated with the first packet. In accordance with a particular embodiment of the present invention, switching of the first portion is accomplished in accordance with a cut-through forwarding technique. In accordance with yet another embodiment, the error detection technique is accomplished according to a limited cyclical redundancy checksum technique.